Page 5



REMARKS

Status of the Claims.

Claims 1-15 are pending with entry of this amendment, claims 16-26 being canceled and no claims being added herein. Claims 1, 4, and 6 and the specification are amended herein. These amendments introduce no new matter. The amendments are made to replace one letter amino acid codes with three letter amino acid codes, to eliminate the use of square brackets in the specification, to eliminate express reference to non-elected sequences in the claims, and to improve clarity. Support is replete throughout the specification (e.g., in Table 1, the claims as filed, etc.).

Election/Restriction.

Pursuant to a restriction requirement made final, Applicants cancel claims 15-26 and amend claims 1 and 4 to the elected species with entry of this amendment. Please note, however, that Applicants reserve the right to file subsequent applications claiming the canceled subject matter and the claim cancellations should not be construed as abandonment or agreement with the Examiner's position in the Office Action.

Informalities.

The specification was objected to for allegedly not conforming to 37 C.R.F. §1.822(d)(1) since the amino acids in the peptide sequences of the invention are listed with one letter abbreviations instead of the three letter code. The specification is amended herein to replace the one letter amino acid abbreviations with the three letter amino acid abbreviations thereby obviating this objection..

The specification as also objected to for the use of square brackets "[]". The specification has been amended herein to remove the square brackets thereby obviating this objection.

Claim Objections.

Claims 1 and 4 were objected to for the use of one letter rather than three-letter amino acid codes. Claims 1 and 4 are amended herein to replace the one-letter codes with three-letter codes thereby obviating this objection.

Obviousness-Type Double patenting.

Claims 1-15 were provisionally rejected under the judicially created doctrine of obviousness-type double patenting as allegedly being unpatentable over claims 1 and 5-13 of U.S.

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Patent 6,037,137. Applicants will provide a Terminal Disclaimer upon an indication of otherwise patentable subject matter.

35 U.S.C. §112, Second Paragraph.

Claims 1-15 were rejected under 35 U.S.C. §112, second paragraph, as allegedly indefinite as explained below:

A) Non-elected sequences.

Claims 1-15 were rejected as allegedly indefinite because the claims contained nonelected sequences. Claims 1 and 4 are amended herein to only recite the elected sequences thereby obviating this rejection.

B) Use of the term "dipeptide".

Claims 1-15 were rejected as allegedly indefinite because the claims recite "aa², aa³, aa⁹, and aa⁹ are independently selected from the croup consisting of an amino acid or a dipeptide," however, there was allegedly no dipeptide recited in the Markush group.

Claim 1 is amended herein to eliminate reference to the dipeptide thereby obviating this rejection.

C) Use of the term "fm and fmoc".

The Examiners rejected claims 1-15 because of the allegedly inconsistent use of the abbreviations "Fm" and "Fmoc". Applicants believe the claims, as amended herein, consistently refer to "Fmoc" thereby obviating this rejection.

D) Use of the term "about".

Claim 6 was rejected under 35 U.S.C. §112, second paragraph, as allegedly indefinite in the recitation of the phrase "between about". Claim 6 is amended to recite "in the range of 315 nm to 700 nm" thereby obviating this rejection..

Page 5

E) Use of the term "or other anion".

Claim 9 was rejected as allegedly indefinite in the recitation of "other anion". Applicants respectfully traverse. The Examiner is reminded that a is deemed definite if "... read in light of the specification [it] reasonably apprise[s] those skilled in the art both of the utilization and scope of the invention, and if the language is as precise as the subject matter permits." *Hybritech Inc. v Monoclonal Antibodies, Inc.*, 231 USPQ 81 (Fed. Cir. 1986) *cert. denied* 480 U.S. 947 (1987) *citing Shatterproof Glass*, 225 USPQ 634, 641 (Fed. Cir. 1985).

In the instant case, the fluorophores listed in the Markush Group of claim 9 are listed as halide anions. One of ordinary skill would readily appreciate that, while the fluorophores are identified as halide anions (e.g., 9-(2,5)-dicarboxyphenyl)-2,7-dimethyl-3,6-bis(ethylamino)xanthylium halide), the same fluorophores are available in other anionic forms and such forms are commercially available from a number of suppliers (e.g. Molecular Probes, Inc.). It is prohibitively cumbersome, however to expressly recite every anion form for each of the fluorophores. Nevertheless, presented with such a fluorophore anion, one of skill would readily recognize the moiety.

The claims thus reasonably apprise those skilled in the art both of the utilization and scope of the invention, and is as precise as the subject matter permits. Accordingly the rejection of claim 9 under 35 U.S.C. §112, second paragraph, should be withdrawn.

F) The phrase "bears a hydroiphobic group".

Claims 10-14 were rejected as allegedly indefinite because of the recitation "bears a hydrophobic group:. The Examiner alleged that the claim was indefinite because it is unclear where the hydrophobic group is located. Applicants traverse.

The claim need not recite a location of the hydrophobic group to be definite. Indeed, it is contemplated that the hydrophobic group might be located at any "convenient" location on the molecule. One of skill in the art would readily appreciate that the claim pertains to the recited molecule(s) bearing a hydrophobic group at any location. Moreover, it is unduly burdensome to enumerate every location where such a hydrophobic group might be coupled.

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The claims thus reasonably apprise those skilled in the art both of the utilization and scope of the invention, and is as precise as the subject matter permits. Accordingly the rejection of claims 10-14, under 35 U.S.C. §112, second paragraph, should be withdrawn.

In view of the foregoing, Applicants believes all claims now pending in this application are in condition for allowance, but for the filing of a Terminal Disclaimer. The issuance of a formal Notice of Allowance at an early date is respectfully requested. Should the Examiner seek to maintain the rejections, Applicants request a telephone interview with the Examiner and the Examiner's supervisor.

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (510) 337-7871.

QUINE INTELLECTUAL PROPERTY LAW

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Fax: 510 337-7877

Respectfully submitted,

Tom Hunter Reg. No: 38,498

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Page 1
Replacement Table 4.

Substrate aa ¹ class	aa²-aa³	aa ⁴	aa ⁵	×	Ь	¥	aa ⁶	aa ⁷	aa ⁸ -aa	aa ¹⁰	S ₂
s (prefer	ably with D	ER and	rMR fluc	orophore	CPP32 substrates (preferably with DER and TMR fluorophores). Note where Fmoc (Fm) is indicated, it is optional, and where not indicated it can be added.	Fm) is ir	ndicated, i	t is optior	nal, and whe	ere not inc	licated
Fa-Lys	Asp		Pro	Ahx Gly	AspGluValAspGlyI leNle	GlyA hx	Pro			Lys	GlyTy
Fm- Lys	Asp		Pro	Ahx Gly	AspGluValAspGlyI leNle	GlyA hx	Pro			Lys amide	
Fm- Lys	Asp		Pro	Ahx Gly	(d- O)AspGluValAspG IyIleNle	GlyA	Pro			Lys	GlyTy r
Fm- Lys	Asp		Pro	Ahx Gly	AspGluValAspGlyI leNle	Gly	Pro			Lys	GlyTy
Fm- Lys	Asp		Pro	Gly	AspGluValAspGlyI leNle	GlyA hx	Pro			Lys	GlyTy
Fm- Lys	Asp		Pro	Ahx Gly	AspGluValAspGGl yIleAsp	GlyA hx	Pro			Lys amide	
Fm- Lys	Asp		Pro	Ahx Gly	GluGluValGluGlyI leNle	GlyA	Pro			Lys	GlyTy r
Fm- Lys	Asp		Pro	Ahx Gly	Asp(dPhe)ValAsp GlyIleNle	GlyA hx	Pro			Lys	GlyTy r
Fm- Lys	Asp		Pro	Ahx Gly	(d-Asp)GluVal(d- Asp)GlyIleNle	GlyA hx	Pro			Lys	GlyTy r
Fm- Lys	Asp		Pro	Ahx Gly	AspGluValAspGlyI leNle	GlyA hx	Pro			Lys	GlyTy r



MAN TRACE

D14 Cont.

!												
GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyLy	GlyTy	GlyTy
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
												:
Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro
GlyA	GlyA	GlyA hx	GlyA hx	Ahx Ahx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx
AspGluValNleGlyI leNle	AspGluValAspGlyI leAsp	AspGluValAspGlyI leNle	AspGluValNleGlyI leAsp	GlyAspGluValAsp GlylleAsp	GlyNleGluValAsp GlylleAsp	GlyAspGluValAsp GlylleNle	GlyNleGluValAsp GlyIleNle	GlyAspGluValNle GlylleNle	GlyNleGluValNle NleGlyIleNle	OaaAspGluValAsp GlylleAsp	dOaaAspGluValAs pGlylleAsp	TrpAspGluValAsp GlylleAsp
Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Ahx	Ahx	Ahx	Ahx	Ahx	Ahx	Ahx Gly	Ahx Gly	Ahx Gly
				Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib
AspB	AspB	AspB	AspB	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp
Fm- Lys	Fm- Lys	Fm- Lys	Fm- Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys



Replacement Table 4. Page 3

	,								,	,	•	
GlyTy r	GlyTy r	GlyTy	GlyTy r	GlyTy	GlyTy r	GlyTy	GlyTy r	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy r
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro
GlyA hx	GlyA hx	GlyA				Gly	Gly	Gly	GlyA hx	GlyA	GlyA	GlyA hx
dTrpAspGluValAs pGlylleAsp	dOaadOaaAspGlu ValAspGlyIleAsp	dTrpdTrpAspGluV alAspGlylleAsp	TyrValAlaAspGlyI leAsp	TyrValAlaAspGlyI leNle	YVA <u>N</u> GIyIleNle	TyrValAlaAspGlyI leAsp	TyrValAlaAspGlyI leNle	TyrValAlaNleGlyII eNle	TyrValAlaAspGlyI leAsp	TyrValAla <u>Nle</u> GlyIl eAsp	TyrValAla <u>Nle</u> GlyII eNle	TyrValAlaAspGlyI leNle
Ahx Gly	Ahx Gly	Ahx Gly				Gly	Gly	Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly
Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib
Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys



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GlyTy		GlyTy	GlyTy	GlyTy	GlyTy	GlyTy	GlyTy		GlyTy	GlyTy	GlyTy	GlyTy	GlyTy
Lys		Lys	Lys	Lys	Lys	Lys	Lys		Lys	Lys	Lys	Lys	Lys
Pro		Pro	Pro	Pro	Pro	Pro	Pro		Pro	Pro	Pro	Pro	Pro
GlyA		Ahx	Ahx		Gly	GlyA	GlyA		GlyA	Ahx	Ahx		
dTyrValAlaAspGly IleNle		Leu ValGluIle AspN leGly	Leu ValGluIleGluN leGly	Leu ValGlulle AspN leGly	Leu ValGluIle <u>Asp</u> N leGly	LeuValGluIle <u>Asp</u> N leGly	Leu ValGluIleNleNl eGly		GlylleGluThrGluSe rGlyVal	GlylleGluThrAspS erGly	GlylleGluThrGluSe rGly	GlyIleGluThr <u>Asp</u> S erGlyValAspAsp	GlyIleGluThrNleSe rGlyValAspAsp
Ahx Gly		Ahx Gly	Ahx Gly		Gly	Ahx Gly	Ahx Gly		Ahx	Ahx	Ahx		
Aib		Pro		Aib	Aib	Aib	Aib		Pro	Pro	Pro	Aib	Aib
Asp		Asp	AspP	Asp	Asp	Asp	Asp		Asp	Asp	Asp	Asp	Asp
Lys		Fm- Lys	Fm- Lys	Lys	Lys	Lys	Lys	175	Fm- Lys	Fm- Lys	Fm- Lys	Lys	Lys
	LAMIN-A							ProCPP32Asp175					

LIY Cont

	Lys	Asp	Aib	Gly	GlylleGluThrAspS erGlyValAspAsp	Gly	Pro	Lys	GlyTy
	Lys	Asp	Aib	Gly	GlylleGluThrNleSe rGlyVal	Gly	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx	GlylleGluThrAspS erGlyVal	Ahx	Pro	 Lys	GlyTy
	Lys	Asp	Aib	Ahx	GlylleGluThr <u>Nle</u> Se rGlyVal	Ahx	Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	GlylleGluThr <u>Asp</u> S erGlyVal	GlyA	Pro	 Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	GlylleGluThr <u>Nle</u> Se rGlyVal	GlyA hx	Pro	Lys	GlyTy
ProCPP32Asp28	28		:						
	Lys	Asp	Aib		GlySerGluSerMet <u>A</u> spSerGlyIleSerLeu <u>Asp</u>		Pro	Lys	GlyTy
	Lys	Asp	Aib	Gly	GlySerGluSerMet <u>A</u> spSerGly	Gly	Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	GlySerGluSerMet <u>A</u> <u>spSerGly</u>	GlyA hx	Pro	Lys	GlyTy
NS3 NS5A/5B									
	Lys	Asp	Aib	Ahx Gly	AspValValCys <u>Cys</u> <u>SerMetSer</u>	GlyA hx	Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	AspValValCysAsp SerMetSer	GlyA	Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx	AspValValCys <u>Cys</u>	GlyA	Pro	Lys	GlyTy



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ľ	GlyTy	GlyTy	GlyTy r	GlyTy r	GlyTy r	GlyTy r	GlyTy r	GlyTy r	GlyTy r	GlyTy	GlyTy r	GlyTy	GlyTy r
	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
							•		·				
	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro
hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA hx	GlyA	GlyA hx	GlyA hx	GlyA	GlyA hx
<u>Ser</u> dMetSer	AspValValCysAsp SerdMetSer	AspValValCys <u>Cys</u> ProdMetSer	GluAspValValCys <u>Cys</u> Ser	GluAspValValCys <u>AspSer</u>	GluAspdValValCy s <u>Cys</u> Pro	GluAspdValValCy s <u>AspPro</u>	AspdValValCys <u>Cy</u> <u>s</u> SerdMetSer	AspValdValCys <u>As</u> pSerdMetSer	AspdValValCys <u>Cy</u> <u>s</u> PrpdMetSer	AspValValCys <u>Cys</u> SerMet	AspValValCys <u>Asp</u> SerMet	ValCyc <u>Cys</u> SM	ValCysAspSM
Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly
	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib	Aib
	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp
	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys



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NS3 NS4A/4B									
	Lys	Asp	Aib	Ahx Gly	AspGluMetGluGlu CysSerGlnHisLeu		Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	AspGluMetGluGlu CysProGlnHisLeu		Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	AspGluMetGluGlu AspSerGlnHisLeu		Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Cys</u> SerGlnHisLeu		Pro	 Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>C</u> Pr oGlnHisLeu		Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Asp</u> SerGlnHisLeu		Pro	 Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Cys</u> SerGlnHisLeu	Gly	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Cys</u> ProGlnHisLeu	Gly	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Asp</u> SerGlnHisLeu	Gly	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Cys</u> SerGlnHisLeu	GlyA	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Cys</u> ProGlnHisLeq	GlyA hx	Pro	Lys	GlyTy
	Lys	Asp	Aib	Ahx Gly	GluMetGluGlu <u>Asp</u> SerGlnHisLeu	GlyA hx	Pro	Lys	GlyTy r
Ext. PAI-2									

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				_				_					
GlyTy	GlyTy	GlyTy r	GlyTy r		GlyTy r	GlyTy r	GlyTy			GlyTy	GlyTy r	GlyTy	GlyTy r
Lys	Lys	Lys	Lys		Lys	Lys	Lys			Lys	Lys	Lys	Lys
Pro	Pro	Pro	Pro		Pro	Pro	Pro			Pro	Pro	Pro	Pro
Ahx	Ahx	Ahx	Ahx		Ahx	GlyA	GlyA			Gly	GlyA	GlyA	GlyA
ValMetThrGlyArg ThrGly	ValdMetThrGlyAr gThrGly	ValMetThrGlyArg ThrGly	ValMetThrGlyArg ThrGly		ValMetThrGlyArg Gly	ValMetThrGlyArg Gly	ValdMetThrGlyAr gGly		ThrGlyArgThr	ThrGlyArgThr	VMThrGlyArgThr	ThrGlyArgThr	ThrGlyArgThr
Ahx Gly	Ahx Gly	Ahx Gly	Ahx Gly		Ahx Gly	Ahx Gly	Ahx Gly		Ahx				Ahx Gly
Aib	Aib	Aib	Aib		Aib	Aib	Aib		Pro	Pro	Pro	Pro	Pro
Asp	Asp	Asp	Asp		Asp	Asp	Asp		Asp	Fm-Asp	Asp	Asp,	Asp
Lys	Lys	Lys	Lys		Lys	Lys	Lys		Fm- Lys		Fm- Lys	Fm- Lys	Fm- Lys
				THROMB				Urokinase					



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							_					
GlyTy	GlyTy	GlyTy	GlyTy r	GlyTy r	GlyTy r	GlyTy r		GlyTy r	GlyTy r		GlyTy r	GlyTy
Lys	Lys	Lys	Lys	Lys	Lys	Lys		Lys	Lys		Lys	Lys
Pro	Pro	Pro	Pro	Pro	Pro	Pro		Pro	Pro		Pro	Pro
Gly	Gly	Ahx			Ahx	Ahx		Ahx	Ahx		GlyA hx	GlyA
ThrGlyArgThr	ThrGlyArgThr	ThrGlyArgThrGly	ThrGlyArgThrGly	ThrGlyArgThrGly	ValMetThrGlyArg; ValGly	ValdMetThrGlyAr gValGly		ValMetThrGlyArg AlaGly	ValdMetThrGlyAr gAlaGly		SerGluValLysLeu AspAlaGluPheGly GlyC5ProLysGlyT yr	Ser(d- Glu)ValLys(d- Leu)AspAlaGlu(d-
Ahx Gly	Gly	Ahx	ຍ	C2	Ahx Gly	Ahx Gly		Ahx Gly	Ahx Gly		Ahx Gly	Ahx Gly
Pro	Pro	Pro	Pro	Pro	Aib	Aib		Aib	Aib		Pro	Pro
Asp	Asp	Asp	Asp	Asp	Asp	Asp		Asp	Asp	Д	Asp	Asp
Fm- Lys	Fm- Lys	Lys	Lys	Lys	Lys	Lys		Lys	Lys	IL AMLO	Fm- Lys	Fm- Lys
							F12A			Swedish KM/NL AMLOID		



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					Phe)				
	Fm- Lys	Asp	Pro	Ahx Gly	Ser(d- Glu)ValLys(d- Leu)AspAlaGlu(d- Phe)	GlyA hx	Pro	Lys	GlyTy r
	Lys	Asp	Aib	Ahx Gly	SerGluValNle <u>LysA</u> spAlaGluPhe	GlyA hx	Pro	Lys	AspAs pTyr
	Lys	Asp	Aib	Ahx Gly	SerGluValLysLeu AspAlaGluPhe	GlyA hx	Pro	 Lys	AspAs pTyr
NATIVE AMYLOID	CLOID								
	Lys	Asp	Aib	Ahx Gly	SerGluValK <u>M</u> DA GluPhe	GlyA	Pro	Lys	AspAs pTyr
CATHESPSIN	. G								
	Lys	Asp	Aib	Ahx Gly	SerGluValK <u>M</u> DD GluPhe	GlyA hx	Pro	Lys	AspAs pTyr
	Lys	Asp	Aib	Ahx Gly	SerGluValNleLysA spAspGluPhe	GlyA hx	Pro	Lys	AspAs pTyr
APP(709-710)		•		:					
	Lys	Asp	Aib	Ahx Gly	GlyValVallle <u>Ala</u> Th rVallleVallleThr	GlyA hx	Pro	Lys	AspAs pTyr
APP(708-719)									i i
	Lys	Asp	Aib	Ahx Gly	TyrGlyValValIle <u>Al</u> aThrValIleValIleTh I	GlyA hx	Pro	Lys	AspAs pTyr
APP(711-716)									
	Lys	Asp	Aib	Ahx	Vallle <u>Ala</u> ThrVallle	GlyA	Pro	Lys	AspAs

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				ß	Gly		hx			pTyr
APP(708-713)										
	Lys	Asp	A	Aib Al	Ahx T Aib	TyrGly <u>ValVallle</u> Al a	GlyA hx	Pro	Lys	AspAs pTyr
PSA Sg1										
:	Lys	Asp	A	Aib Al	Ahx (GlnGlnLeuLeuHis Nle	Ahx Ahx	Pro	Lys	
	Lys	Asp	A	Aib Al	Ahx (Gly	GInGInLeuLeuHis NIe	GlyA hx	Pro	Lys	
	Lys	Asp	- A	Aib G	Gly	GlnGlnLeuLeuHis Nle	Gly	Pro	Lys	
	Lys	Asp	A	Aib		GlnGlnLeuLeuHis Nle		Pro	Lys	
PSA Sg2										
	Lys	Asp	A	Aib A A	Ahx S	SerIleGlnTyrThrTy r	Ahx Ahx	Pro	Lys	
	Lys	Asp	Y	Aib A G	Ahx S	SerlleGlnTyrThrTy r	GlyA hx	Pro	Lys	
	Lys	Asp	¥	Aib G	Gly	SerIleGlnTyrThrTy r	Gly	Pro	Lys	
	Lys	Asp	A	Aib		SerIleGlnTyrThrTy r		Pro	Lys	
PSA Sg3										
	Lys	Asp	V	Aib A A	Ahx S	SerSerGlnTyrSerNl e	Ahx Ahx	Pro	 Lys	
	Lys	Asp	V	Aib A	Ahx (SerSerGlnTyrSerNl	GlyA	Pro	Lys	

D14.

<u>'</u>																
									GlyTy r		GlyTy		GlyTy		GlyTy r	GlyTy
	Lys	Lys		Lys	Lys	Lys	Lys		Lys		Lys		Lys		Lys	Lys
										:						
											·			·		
	Pro	Pro		Pro	Pro	Pro	Pro	onal)	Pro		Pro		Pro		Pro	Pro
hx	Gly			Ahx Ahx	GlyA hx	Gly		n) is opti	GlyA hx		GlyA hx		GlyA hx		GlyA	Ahx
e	SerSerGinTyrSerNi e	SerSerGInTyrSerNI e		SerSerIleTyrSerGln	SerSerIleTyrSerGln	SerSerIleTyrSerGln	SerSerIleTyrSerGln	ylrhodamine fluorophore, note fmoc (Fm) is optional)	SerGluValNleLeuA spAlaGluPhe		LeuGluHisAspGlyI leNle		LeuGluThrAspGlyI leNle		TrpGluHisAspGlyI leNle	TyrValHisAspGly
Gly	Gly			Ahx Ahx	Ahx Gly	Gly		ine fluor	Ahx Gly		Ahx Gly		Ahx Gly		Ahx Gly	Ahx
	Aib	Aib		Aib	Aib	Aib	Aib	ylrhodam	Pro		Pro		Pro		Pro	Pro
								vith dieth								
	Asp	Asp		Asp	Asp	Asp	Asp	referably v	Asp		Asp		Asp		Asp	Asp
	Lys	Lys		Lys	Lys	Lys	Lys	bstrates (p	Fm- Lys		Fm- Lys		Fm- Lys		Fm- Lys	Fm-
			PSA Sg4					Cathepsin D substrates (preferably with dieth)		Caspase-9		Caspase-8		Caspase-1		

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MAR 1 7 2003		GlyTy	GlyTy		GlyTy		GlyTy		GlyTy		GlyTy
		Lys	Lys		Lys		Lys		Lys		Lys
1											
X14,		Pro	Pro		Pro		Pro		Pro		Pro
	A a	GlyA			GlyA		GlyA		GlyA		GlyA hx
Cicron		TyrValHisAspGlyIl eNle	TyrValHisAspAla		IleGluProAspSer		ProLeuGlylleAlaGl		SerGlnNleTyrProll eValGln		GluAspValValCys CysSer
	Gly	Ahx Gly	Ahx Gly		Ahx Gly		Ahx Gly		Ahx Gly		Ahx Gly
		Pro	Pro								
-											
ge 13		Asp	Asp	:	AspPro		AspPro		AspPro		AspPro
able 4. Pa	Lys	Fm- Lys	Fm- Lys		Fm- Lys		Fm- Lys	9	Fm- Lys	otease	Fa-Lys
Replacement Table 4. Page 13				Granzyme B		Collagenase		HIV-1 protease		Hepatitis C protease	